Name:

Check if Relation is a Function (12 pts classwork, version 50)

1. A relation is expressed as a list of (x, y) ordered pairs.

$$(1,3)$$
 $(8,1)$ $(9,7)$ $(1,8)$ $(6,2)$ $(2,6)$ $(6,2)$

• Is this list consistent with y being a function of x? Why or why not?

no

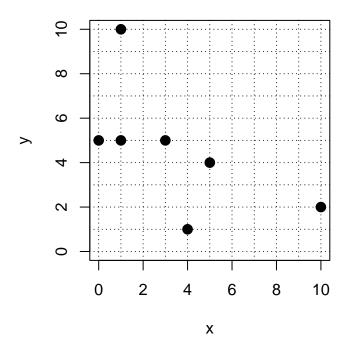
• Is this list consistent with x being a function of y? Why or why not?

yes

• Is this list consistent with a one-to-one function? Why or why not?

no

2. A relation is shown as points on a graph.



• Is this relation consistent with y being a function of x? Why or why not?

no

• Is this relation consistent with x being a function of y? Why or why not?

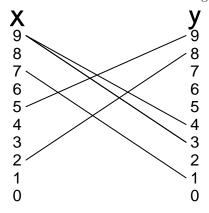
no

• Is this relation consistent with a one-to-one function? Why or why not?

no

Check if Relation is a Function (version 50)

3. A relation is shown with segments connecting elements of two sets.



• Is this relation consistent with y being a function of x? Why or why not?

no

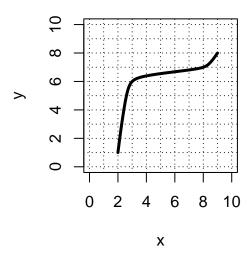
• Is this relation consistent with x being a function of y? Why or why not?

yes

• Is this relation consistent with a one-to-one function? Why or why not?

nc

4. A relation is shown as a curve plotted on an x, y



• Is this relation consistent with y being a function of x? Why or why not?

yes

• Is this relation consistent with x being a function of y? Why or why not?

yes

• Is this relation consistent with a one-to-one function? Why or why not?

yes